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FILE 'USPATFULL' ENTERED AT 14:15:22 ON 18 DEC 2000

E US5510982/RPN

L1 6 S E3
L2 503 S (701/51 OR 701/55 OR 701/56 OR 701/58)/NCLM,NCLS
L3 294 S (477/115 OR 477/120 OR 477/900)/NCLM,NCLS
L4 63 S 706/905/NCLM,NCLS
L5 779 S L2 OR L3 OR L4
L6 9985 S AUTOMATIC TRANSMISSION
L7 6513 S TORQUE CONVERTER
L8 7708 S (ESTIMAT? OR CALCULAT? OR DETERMIN?) (3A)TORQUE
L9 168 S L6(P)L7(P)L8
L10 5026 S TURBINE (3A)SPEED
L11 19 S L10(P)L9
L12 31209 S ENGINE (2A)SPEED
L13 107 S RATIO (10A) (L10(5A)L12)
L14 38 S L13 AND L9
L15 30 S L14 NOT L11

QUESTEL *

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Estimated total session cost :	0.77 USD

Selected file: PLUSPAT

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UP (basic) updates thru 2000-49
Content and searching information: see INFO PLUSPAT
Last database update : 2000/12/14 (YYYY/MM/DD)

Search statement 1

?us5510982/

** SS 1: Results 1

Search statement 2

?prt legalall full

1/1 PLUSPAT - (C) QUESTEL-ORBIT
PN - US5510982 A 19960423 [US5510982]
STG - (A) United States patent
TI - (A) Automatic automobile transmission with variable shift pattern
controlled in response to estimated running load
PA - (A) HITACHI LTD (JP)
IN - (A) OHNISHI HIROSHI (JP); KITANO KOUJI (JP); KAYANO MITSUO (JP);
KURIHARA NOBUO (JP)
IC - (A) B60K-017/06
AP - US98519992 19921203 [1992US-0985199]
PR - JP31920591 19911203 [1991JP-0319205]
EC - F16H-059/52
- F16H-061/02E1M
ICO - R16H-059/14
- R16H-059/38T
- R16H-059/46T
- R16H-059/48
- R16H-061/00M2
PCL - ORIGINAL (O) : 701055000; CROSS-REFERENCE (X) : 477120000 477900000
706905000
DT - Corresponding document

1/1 LGST - (C) LEGSTAT
PN - US 5510982 [US5510982]
AP - US 985199/92 19921203 [1992US-0985199]
DT - US-P
ACT - 19921203 US/AE-A
APPLICATION DATA (PATENT)
{US 985199/92 19921203 [1992US-0985199]}
- 19930222 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

HITACHI, LTD. 6, KANDA SHIBUGADAI 4-CHOME CHIYODA-KU, TOKYO JAPAN *
 ONISHI, HIROSHI : 19930202; KITANO, KOUJI : 19930202; KAWABE, MITSUO :
 19930202; KURIHARA, MOBUO : 19930202
 - 19960423 US/A
 PATENT

- 19981006 US/RF
 REISSUE APPLICATION FILED
 980423
 - 20000912 US/RF
 REISSUE APPLICATION FILED
 20000204
 UP - 2000-40

1/1 CRXX - (C) CLAIMS/RRX
 AN - 2711773
 PN - 5,510,982 A 19960423 [US5510982]
 PT - E (Electrical)
 PA - Hitachi Ltd JP
 ACT - 19980423 REISSUE REQUESTED
 Issue Date of O.G.: 19981006
 Reissue Request Number: 09/064765
 Examination Group responsible for Reissue process: 2304
 - 20000204 REISSUE REQUESTED
 Issue Date of O.G.: 20000912
 Reissue Request Number: 09/498856
 Examination Group responsible for Reissue process: 2786
 UP - 1999-00
 UACT- 2000-09-12

1/2 PAST - (C) PAST
 AN - 200037-001295
 PN - 5510982 A [US5510982]
 DT - A (UTILITY)
 OG - 2000-09-12
 CO - REA
 ACT - REISSUE APPLICATION FILED
 SH - REISSUE APPLICATION FILED

Y

2/2 PAST - (C) PAST
 AN - 199840-001093
 PN - 5510982 A [US5510982]
 DT - A (UTILITY)
 OG - 1998-10-06
 CO - REA
 ACT - REISSUE APPLICATION FILED
 SH - REISSUE APPLICATION FILED

*** t 1/39;log***

*** 1/39/1***

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat

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11654856

Basic Patent (No,Kind,Date): DE 4240762 A1 19930609 <No. of Patents: 007>

Patent Family:

***	Patent No	Kind	Date	Applic No	Kind	Date***
***	DE 4240762	A1	19930609	DE 4240762	A	19921203 (BASIC)***
***	DE 4328893	A1	19940310	DE 4328893	A	19930827***
***	JP 6074320	A2	19940315	JP 92228878	A	19920827***
***	JP 6147304	A2	19940527	JP 92324514	A	19921203***
***	JP 11325227	A2	19991126	JP 9937286	A	19990216***
***	US 5510982	A	19960423	US 985199	A	19921203***

*** US 5925087 A 19990720 US 112373 A 19930827***
 Priority Data (No,Kind,Date):
 *** JP 91319205 A 19911203***
 *** JP 92228878 A 19920827***
 *** JP 92246719 A 19920916***
 *** JP 92324514 A 19921203***
 *** JP 9937286 A 19990216***

 PATENT FAMILY:
 GERMANY (DE)
 *** Patent (No,Kind,Date): DE 4240762 A1 19930609***
 *** EINRICHTUNG ZUR STEUERUNG VON AUTOMATIKGETRIEBEN FUER KRAFTFAHRZEUGE***
 *** (German)***
 *** Patent Assignee: HITACHI LTD (JP)***
 *** Author (Inventor): ONISHI HIROSHI (JP); KITANO KOJI (JP); KAYANO***
 *** MITSUO (JP); KURIHARA NOBUO (JP)***
 *** Priority (No,Kind,Date): JP 91319205 A 19911203***
 *** Applic (No,Kind,Date): DE 4240762 A 19921203***
 *** IPC: * F16H-059/52; F16H-059/66; F16H-059/24; B60K-041/06***
 *** Derwent WPI Acc No: ; G 93-189640***
 *** Language of Document: German***
 *** Patent (No,Kind,Date): DE 4328893 A1 19940310***
 *** VERFAHREN UND SYSTEM ZUR GEFAELLEABHAENGIGEN STEUERUNG VON FAHRZEUGEN***
 *** UND VERFAHREN UND EINRICHTUNG ZUR SCHAEZUNG DES GEFAELLES (German)***
 *** Patent Assignee: HITACHI LTD (JP)***
 *** Author (Inventor): OHNISHI HIROSHI (JP); KATAYAMA HIROSHI (JP);***
 *** KAYANO MITSUO (JP); ISHII JUNICHI (JP); MINOWA TOSHIMICHI (JP);***
 *** HORIUCHI MICHIMASA (JP)***
 *** Priority (No,Kind,Date): JP 92228878 A 19920827; JP 92246719 A***
 *** 19920916***
 *** Applic (No,Kind,Date): DE 4328893 A 19930827***
 *** IPC: * F16H-059/02; F16H-059/24; F16H-059/36; F16H-059/48; F16H-059/66***
 *** ; F16H-059/54; B60T-007/12; G01C-009/08***
 *** Derwent WPI Acc No: ; G 94-084717***
 *** Language of Document: German***

 GERMANY (DE)
 *** Legal Status (No,Type,Date,Code,Text):***
 *** DE 4240762 P 19911203 DE AA PRIORITY (PATENT***
 *** APPLICATION) (PRIORITAET (PATENTANMELDUNG))***

 *** JP 91319205 A 19911203***
 *** DE 4240762 P 19921203 DE AE DOMESTIC APPLICATION (PATENT***
 *** APPLICATION) (INLANDSANMELDUNG***
 *** (PATENTANMELDUNG))***
 *** DE 4240762 A 19921203***
 *** DE 4240762 P 19930609 DE A1 LAYING OPEN FOR PUBLIC***
 *** INSPECTION (OFFENLEGUNG)***
 *** DE 4240762 P 19930609 DE OP8 REQUEST FOR EXAMINATION AS***
 *** TO PARAGRAPH 44 PATENT LAW (PRUEFUNGSANTRAG***
 *** GEM. PAR. 44 PATG. IST GESTELLT)***
 *** DE 4328893 P 19920827 DE AA PRIORITY (PATENT***
 *** APPLICATION) (PRIORITAET (PATENTANMELDUNG))***

 *** JP 92228878 A 19920827***
 *** DE 4328893 P 19920916 DE AA PRIORITY (PATENT***
 *** APPLICATION) (PRIORITAET (PATENTANMELDUNG))***

 *** JP 92246719 A 19920916***
 *** DE 4328893 P 19930827 DE AE DOMESTIC APPLICATION (PATENT***
 *** APPLICATION) (INLANDSANMELDUNG***
 *** (PATENTANMELDUNG))***
 *** DE 4328893 A 19930827***
 *** DE 4328893 P 19940310 DE A1 LAYING OPEN FOR PUBLIC***
 *** INSPECTION (OFFENLEGUNG)***
 *** DE 4328893 P 19940310 DE OP8 REQUEST FOR EXAMINATION AS***
 *** TO PARAGRAPH 44 PATENT LAW (PRUEFUNGSANTRAG***
 *** GEM. PAR. 44 PATG. IST GESTELLT)***

 JAPAN (JP)
 *** Patent (No,Kind,Date): JP 6074320 A2 19940315***
 *** VEHICLE INCLINATION DETECTING DEVICE AND AUTOMOBILE USING THE SAME***
 *** (English)***
 *** Patent Assignee: HITACHI LTD***
 *** Author (Inventor): ONISHI HIROSHI; KATAYAMA HIROSHI; KAYANO MITSUO;***
 *** ISHII JUNICHI***
 *** Priority (No,Kind,Date): JP 92228878 A 19920827***

*** Applic (No,Kind,Date): JP 92228878 A 19920827***
*** IPC: * F16H-059/66***
*** JAPIO Reference No: ; 180469M000078***
*** Language of Document: Japanese***
*** Patent (No,Kind,Date): JP 6147304 A2 19940527***
*** AUTOMATIC TRANSMISSION CONTROL DEVICE FOR AUTOMOBILE (English)***
*** Patent Assignee: HITACHI LTD***
*** Author (Inventor): KITANO KOJI; KURIHARA NOBUO; KAYANO MITSUO;***
*** KATAYAMA HIROSHI; ONISHI HIROSHI; ISHII JUNICHI; MINOWA TOSHIMICHI;***
*** HORIUCHI MICHIMASA***
*** Priority (No,Kind,Date): JP 92324514 A 19921203; JP 92246719 A***
*** 19920916; JP 91319205 A 19911203***
*** Applic (No,Kind,Date): JP 92324514 A 19921203***
*** IPC: * F16H-061/00; F16H-059-14; F16H-059-36; F16H-059-42; F16H-059-44***
*** ; F16H-059-48***
*** Derwent WPI Acc No: * G 93-189640; G 94-084717***
*** JAPIO Reference No: * 180469M000043; 180469M000043***
*** Language of Document: Japanese***
*** Patent (No,Kind,Date): JP 11325227 A2 19991126***
*** AUTOMATIC TRANSMISSION CONTROL DEVICE FOR AUTOMOBILE (English)***
*** Patent Assignee: HITACHI LTD***
*** Author (Inventor): KITANO KOJI; KURIHARA NOBUO; KAYANO MITSUO;***
*** KATAYAMA HIROSHI; ONISHI HIROSHI; ISHII JUNICHI; MINOWA TOSHIMICHI;***
*** HORIUCHI MICHIMASA***
*** Priority (No,Kind,Date): JP 9937286 A 19990216; JP 91319205 A***
*** 19911203; JP 92246719 A 19920916***
*** Applic (No,Kind,Date): JP 9937286 A 19990216***
*** IPC: * F16H-061/02; G01L-003/00; F16H-059-14; F16H-059-48; F16H-059-52***
*** Derwent WPI Acc No: * G 93-189640; G 94-084717***
*** JAPIO Reference No: * 180469M000043***
*** Language of Document: Japanese***

UNITED STATES OF AMERICA (US)
*** Patent (No,Kind,Date): US 5510982 A 19960423***
*** AUTOMATIC AUTOMOBILE TRANSMISSION WITH VARIABLE SHIFT PATTERN***
*** CONTROLLED IN RESPONSE TO ESTIMATED RUNNING LOAD (English)***
*** Patent Assignee: HITACHI LTD (JP)***
*** Author (Inventor): OHNISHI HIROSHI (JP); KITANO KOUJI (JP); KAYANO***
*** MITSUO (JP); KURIHARA NOBUO (JP)***
*** Priority (No,Kind,Date): JP 91319205 A 19911203***
*** Applic (No,Kind,Date): US 985199 A 19921203***
*** National Class: * 364424100; 477120000; 477900000; 395905000***
*** IPC: * B60K-017/06***
*** Derwent WPI Acc No: * G 93-189640***
*** JAPIO Reference No: * 180469M000043***
*** Language of Document: English***
*** Patent (No,Kind,Date): US 5925087 A 19990720***
*** METHOD AND APPARATUS FOR ELIMINATING NOISE IN A SLOPE ESTIMATION***
*** ARRANGEMENT FOR A MOTOR VEHICLE (English)***
*** Patent Assignee: HITACHI LTD (JP)***
*** Author (Inventor): OHNISHI HIROSHI (JP); KATAYAMA HIROSHI (JP);***
*** KAYANO MITSUO (JP); ISHII JUNICHI (JP); MINOWA TOSHIMICHI (JP);***
*** HORIUCHI MICHIMASA (JP)***
*** Priority (No,Kind,Date): JP 92228878 A 19920827; JP 92246719 A***
*** 19920916***
*** Applic (No,Kind,Date): US 112373 A 19930827***
*** National Class: * 701070000; 701001000; 701076000***
*** IPC: * B60K-041/22; H04B-015/06***
*** Derwent WPI Acc No: * G 94-084717***
*** JAPIO Reference No: * 180325M000078; 180469M000043***
*** Language of Document: English***

UNITED STATES OF AMERICA (US)
*** Legal Status (No,Type,Date,Code,Text):***
*** US 5510982 P 19911203 US AA PRIORITY (PATENT)***
*** JP 91319205 A 19911203***
*** US 5510982 P 19921203 US AE APPLICATION DATA (PATENT)***
*** (APPL. DATA (PATENT))***
*** US 985199 A 19921203***
*** US 5510982 P 19930222 US AS02 ASSIGNMENT OF ASSIGNOR'S***
*** INTEREST***
*** HITACHI, LTD. 6, KANDA SURUGADAI 4-CHOME***
*** CHIYODA-KU, TOKYO, JAPAN ; ONISHI, HIROSHI :***
*** 19930202; KITANO, KOUJI : 19930202; KAYANO,***
*** MITSUO : 19930202; KURIHARA, NOBUO : 19930202***
*** US 5510982 P 19960423 US A PATENT***
*** US 5510982 P 19981006 US RF REISSUE APPLICATION FILED***

*** (REISSUE APPL. FILED) ***
 *** 0423 ***
 *** US 5510982 P 20000 US RF REISSUE APPLICATION FILED ***
 *** (REISSUE APPL. FILED) ***
 *** 20000204 ***
 *** US 5925087 P 19920827 US AA PRIORITY (PATENT) ***
 *** JP 92228878 A 19920827 ***
 *** US 5925087 P 19920916 US AA PRIORITY (PATENT) ***
 *** JP 92246719 A 19920916 ***
 *** US 5925087 P 19930827 US AE APPLICATION DATA (PATENT) ***
 *** (APPL. DATA (PATENT)) ***
 *** US 112373 A 19930827 ***
 *** US 5925087 P 19990720 US A PATENT ***

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CITES	1 CLE	3 HOTTOP	3	INCORP	4 P-PROP	5	CMPGN	21
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<-----Area of Law-----<----- Medical>													
ADVSOR	6 CONLAW	8 ENERGY	9 HEALTH	11 LABOR	11 PUBCON	12 TELCOM	10 GENMED	15					
ACCTG	8 CORP	9 ENVIRN	9 HR	10 LEXPAT	12 PUBHW	13 TORTS	14 EMBASE	15					
ADMIN	8 COPYRT	8 ESTATE	9 IMMIG	11 M&A	12 REALTY	13 TRADE	14 MEDLNE	15					
ADMRTY	8 CRIME	9 ETHICS	10 INSURE	11 MILTRY	12 STSEC	13 TRANS	14 <-Helps->						
ADR	8 CYBRLW	9 FAMILY	10 INTLAW	11 PATENT	12 STTAX	13 TRDMRK	14 EASY	6					

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FILES - PAGE 1 of 7 (NEXT PAGE for additional files)

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<---CASES & ADMINISTRATIVE DECISIONS--> <-----PATENTS GROUP FILES----->					
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PTOMNI	1	FEDCTS, PTO, ITC, ALLREG			REEXAM & REISS
CASES	1	FEDCTS, PTO & ITC	ALLPAT	4	Comb. ALL & INTPAT
FEDCTS	2	Patent cases from Fed. Cts.	<-----U.S. PATENTS----->		
CCPA	2	Ct Customs & Patent Appeals	UTIL	4	Full Text Patents from 1971*
CAFC	2	Patent cases from Fed. Cir.	DESIGN	4	Full Text Patents from 1976
PTO	2	PATAPP & COMMR	PLANT	4	Full Text Patents from 1976
<-----SECONDARY SOURCES----->					
IPLTR	5	Intell Prop Law Nwltrs	JNLS		
IPLR	5	Intell Prop Law Rev Articles	News, Currws		

PATNO=5510982

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To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMTS key.

To MODIFY your search request, press the M key (for MODFY) and then the TRANSMIT key.

LEVEL 1 - 1 OF 1 PATENT

<5,510,982>

<<=2>> GET 1st DRAWING SHEET OF 20

Apr. 23, 1996

Automatic automobile transmission with variable shift
 pattern controlled in response to estimated running load

REISSUE: Reissue Application filed Feb. 4, 2000 (O.G. Sep. 12, 2000) Ex. Gp.: 2786; Re. S.N. 09/498,856

Reissue Application filed Apr. 23, 1998 (O.G. Oct. 6, 1998) Ex. Gp.: 2304;

Re. S.N. 09/064,765

CORE TERMS: torque, estimated, a[REDACTED]mobile, load, acceleration, es[REDACTED]tion,
engine, running, gear, revolution...
>>>

5510982 OR 5,510,982
Your search request has found no CASES.

5510982 OR 5,510,982
our search request has found no ITEMS.

5510982 OR 5,510,982
Your search request has found no STORIES.